

## Patent Abstracts of Japan

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APPLICANT: FUTABA CORP:

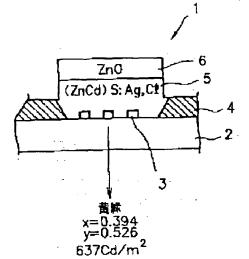
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TITLE

: ANODE BASE



ABSTRACT:

PURPOSE: To provide an anode base having a two-layered phosphor layer with high red emission efficiency from which no sulfide gas spreads.

CONSTITUTION: An anode conductor 3 is formed in a translucent pattern on the inner surface of a glass base 2. The inner surface of the base other than the anode conductor 3 is covered with a black insulating film 4. (Zn<sub>x</sub>Cd<sub>1-x</sub>) S: Aq, Cl ((x) =0.1 to 0.5), which is a sulfide phosphor 5, exists on the anode base 3. ZnO: Zn which is a non-sulfide phosphor 6 exists on the phosphor 5. The anode base constitutes the envelope of a fluorescent display tube, and a lighting experiment is conducted. A beam of a wavelength as short as 550nm or less is emitted from the non-sulfide phosphor 6 by the bombardment of a low-speed electron beam. The short-wavelength beam is absorbed by the sulfide phosphor 5 and its emissive intensity decreases. The short-wavelength beam radiably excites the sulfide phosphor 5 to cause the phosphor 5 to emit red light with a peak near 650nm. Red components increase as a whole, and yellow- green emission can be obtained.

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